

Title (en)
A TOOL HOLDER AND A PARTING AND GROOVING TOOL FOR AN INDEXABLE TURRET, AND A MACHINING METHOD THEREFOR

Title (de)
WERKZEUGHALTER UND EIN TRENN- UND NUTWERKZEUG FÜR EINEN INDEXIERBAREN REVOLVER UND BEARBEITUNGSVERFAHREN DAFÜR

Title (fr)
SUPPORT D'OUTIL ET OUTIL DE RAINURAGE ET DE PARTITION POUR UNE TOURELLE INDEXABLE ET PROCÉDÉ D'USINAGE ASSOCIÉ

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Application
EP 19204738 A 20191023

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Abstract (en)
A tool holder (1) and a parting and grooving tool (2) for an indexable turret (11) having a plurality of tool stations (4), where adjacent tool stations (4) having a predetermined angular spacing (α), the tool holder (1) comprising: a mounting portion (5) and a projected portion (6), wherein the mounting portion (5) comprises a flat surface (7) extending in an interface plane (P1), wherein the projected portion (6) comprises a recess (13) for holding the parting and grooving tool (2), wherein the projected portion (6) and the mounting portion (5) is connected, wherein the parting and grooving tool (2) comprising: a cutting portion (8) and a clamping portion (9), wherein the cutting portion (9) comprises a cutting edge (10), wherein the clamping portion comprises a rear end surface (14), wherein the parting and grooving tool (2) is mountable in the recess (13) such that a distance (15) from the interface plane (P1) to the rear end surface (14) of the parting and grooving tool (2) is greater than a distance (16) from the interface plane (P1) to the cutting portion (8) of the parting and grooving tool (2).

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Citation (applicant)

- US 4018112 A 19770419 - HEATON JAMES W, et al
- US 2017197252 A1 20170713 - ISHIHARA TADASHI [JP]
- US 2014133903 A1 20140515 - JANSEN KARLHEINZ [DE]
- US 2011023276 A1 20110203 - JANSEN KARLHEINZ [DE]
- US 10052693 B2 20180821 - KUROKAWA MASAHIRO [JP]
- EP 2730356 A1 20140514 - SANDVIK INTELLECTUAL PROPERTY [SE]
- EP 3357613 A1 20180808 - SANDVIK INTELLECTUAL PROPERTY [SE]

Citation (search report)

- [XDAI] EP 3357613 A1 20180808 - SANDVIK INTELLECTUAL PROPERTY [SE]
- [XA] US 2005129471 A1 20050616 - ENGLUND KJELL [SE]
- [A] CN 108480669 A 20180904 - XIAN AERONAUTICAL POLYTECHNIC INST
- [A] US 5720090 A 19980224 - DAWSON JR HOWARD J [US]
- [A] US 2014126969 A1 20140508 - TÖRNSTRÖM ROGER [SE]
- [A] US 3815928 A 19740611 - KOMORI H
- [AD] US 2017197252 A1 20170713 - ISHIHARA TADASHI [JP]
- [XAI] EP 3246125 A1 20171122 - VANDURIT GMBH HARTMETALL UND DIAMANTWERKZEUGE [DE]

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